LANGLEY AIRCRAFT CORPORATION

MODELS: langley 2-4-90, 4 PCLM

T.C. NUMBER: 755 (Approved 12/29/43)

Engines Fuel	2 Franklins 4AC-199E3 80 minimum octane aviation gasoline		
Engine limits	For all operations, 2500 rpm (90 hp)		
Airspeed limits	Level flight or climb - 150 mph True Ind.		
	Glide or dive - 180 mph True Ind.		
Propeller limits	Static rpm at maximum permissible throttle setting - not more or less than 2100.		
	Diameter - not more than 72 in., not less than 70 in.		
C.G. range	(+14.7) to (+19.1)		
Datum	Wing leading edge at center section		
Leveling means	Right hand longeron at entrance to cockpit		
Maximum weight	2650 lbs.		
No. seats	4 (two at (+10), two at (+42))		
Baggage	None		
Fuel capacity	35 gallons (two tanks: 17-1/2 gallons each in center section) (+23)		
Cil capacity	2-1/2 gallons (1-1/4 gallons each engine) (-25)		
Control surface	Elevator Up 25 degrees; down 25 degrees		
movements	Elevator trim tab Up 22 degrees; down 18 degrees		
MOVEMENTED	Ailerons Up 20 degrees; down 23 degrees		
	Rudder Right 25 degrees; left 25 degrees		
	Rudder trim tab None - Adjustable bungee used.		
Serial Nos. eligible	3 and up per NOTE A		
Required equipment	Items 1, 101, 102, 103, 104, 201, 202, 203, 301, 302		

Specifications Pertinent to All Models:

Certification basis	Type Certificate No. 755 (CAR 4a)
Production basis	None (See NOTE A)
Export eligibility	Eligible for export to all countries except Great
	Britain, Australia, Canada and New Zealand.

EQUIPMENT:

	and Propeller Accessories Propellers - wood (fixed pitch) and b	hubs 22	lbs.	(-38)			
Engines and Engine Accessories - Fuel and Oil System							
101. T	wo carburetor air heaters and						
c	controls	4	lbs.	(-21)			
102. F	our fuel pumps						
•	(a) Two engine-driven (AC GP-10584)	4	lbs.	(-19)			
	(b) Two electric impulse						
•	(Auto pulse 300)	4	lbs.	(+5)			
103. T	(wo starters (direct electric)						
	(Delco Remy - 142)	30	lbs.	(-13)			
104. I	wo carburetor air scoops						
	(Skinner Model S-300-A)	6	lbs.	(-28)			

Landing Gear

201.	8.50-8 wheels (Goodyear L8HBM) with	* *	lbs.	(+7)
	7.00-8 4-ply tires	-		
202.	Wheel streamlines (Drawing 1-20200)	8	lbs.	(+8)
203.				
2000	(Firestone) with tire	3	lbs.	(+190)
	al Equipment			
301.	One generator 4-8 amp. (Electric			
	Auto Lite Model GDY-4106)	12	lbs.	(-13)
302	Battery, 12 volt (Reading R40			
302.	non-spillable)	40	lbs.	(-46)
Interior	Equipment			
401.	Seat cushions			
	(a) Two front	7	lbs.	(+14)
	(b) One rear	7	lbs.	(+46)
	(5) 0 2022	•		

NOTE A. Prior to original certification, each aircraft must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.

 (b) A final inspection of the completed aircraft.

 (c) A check of the flight characteristics.

NOTE 1. The following placards must be prominently posted in full view of the pilot:

- "This airplane shall be operated in accordance with Part I of the (1) C.A.A. approved operating manual for Andover Kent Model Langley 2-4-90. The manual shall be carried in the pilot's compartment at all times."
- "Intentional Acrobatics Prohibited."
- (3) "With no passenger in the front seat only one passenger may be carried in the rear seat."